

Appendix A—
Resume of
Michael J. McGuire

Michael J. McGuire

MICHAEL J. MCGUIRE

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EMPLOYMENT

2008-Present	President, Michael J. McGuire Inc.
2005-2008	Vice President, Malcolm Pirnie, Inc.
1992-2005	President, McGuire Environmental Consultants, Inc.
1990-1992	Assistant General Manager
1986-1990	Director of Water Quality
1984-1986	Water Quality Manager
1979-1984	Water Quality Engineer The Metropolitan Water District of Southern California
1977-1979	Project Manager/Engineer Brown and Caldwell Consulting Engineers
1973-1977	Teaching Assistant/Research Associate Drexel University
1969-1973	Project Engineer Philadelphia Water Department

PROFESSIONAL DEVELOPMENT

1984	BCEE, Board Certified Environmental Engineer, American Academy of Environmental Engineers
1982	California-Nevada Section AWWA, Water Quality Analyst, Grade IV
1973, 1974, 1978, 1997, 2003	Registered Professional Engineer in Pennsylvania, New Jersey, California, Arizona, Texas

Michael J. McGuire

EDUCATION

1991	University of Southern California, Los Angeles, California, Executive Management Program
1973-1977	Drexel University, Philadelphia, PA Degree: Doctor of Philosophy, Environmental Engineering Dissertation Title: The Optimization of Water Treatment Unit Processes for the Removal of Trace Organic Compounds with an Emphasis on the Adsorption Mechanism
1970-1972	Drexel University, Philadelphia, PA Degree: Master of Science, Environmental Engineering
1965-1969	University of Pennsylvania, Philadelphia, PA Degree: Bachelor of Science, Civil Engineering Honors: Sigma Tau Engineering Honor Fraternity and Hexagon Senior Honor Society

PROFESSIONAL SOCIETIES

American Water Works Association, American Chemical Society, American Society of Civil Engineers, International Water Association, International Ozone Association, Water Environment Federation, National Society of Professional Engineers, Sigma Xi

AREAS OF EXPERTISE AND RESEARCH INTERESTS

Control of trace contaminants in drinking water; compliance with the Safe Drinking Water Act and all related regulations; occurrence, chemistry, and control of disinfection by-products; management of trace organic analysis method development; identification and control of tastes and odors in water supplies; removal of trace organic compounds using granular activated carbon; control of asbestos fibers in water; optimization of water treatment processes; control of water quality in distributions systems. Administration, supervision and budgetary control of professional, technical, and administrative personnel. Experienced public speaker.

Michael J. McGuire

EMPLOYMENT HIGHLIGHTS

2008-Present

Michael J. McGuire, Inc., Los Angeles, California

President—providing consulting services to water utilities and related clients.

2005-2008

Malcolm Pirnie, Inc., Santa Monica, California

Vice President in charge of the Santa Monica office.

1992-2005

McGuire Environmental Consultants, Inc., Santa Monica, California

As founder and President of the firm, I provided a variety of services to the municipal and private water utility market, including:

- Safe Drinking Water Act Compliance audits
- General regulatory review
- Taste and odor problem solving
- Treatment of trace organic contaminants and pathogens
- Watershed sanitary surveys and source water quality studies
- Disinfection by-products
 - ◆ compliance planning
 - ◆ treatment evaluation
 - ◆ analytical method development
 - ◆ research project manager
- Water Quality Program and laboratory external reviews

Drinking Water Section Leader, Earth Forum, CompuServe, 1994-1998

Publisher, Safedrinkingwater.com NEWS, 2000-2008

1979 to 1992

The Metropolitan Water District of Southern California, Los Angeles, California

As Assistant General Manager, I was responsible for administration and environmental compliance. Five divisions reported to me: Personnel, Finance, Administrative Services, Information Systems, and Environmental Compliance. The Affirmative Action Officer reported to me and I was responsible for the implementation of the Affirmative Action Program. I was also involved in the following programs:

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EMPLOYMENT HIGHLIGHTS (Cont.)

- Chair of the Computer Resources Steering Committee, 1991; Chair of Phase Zero Steering Committee, 1992.
- Initiated Information Systems Strategic Plan
- Managed creation of the Environmental Compliance Division
- Managed creation of the Environmental and Resource Specialist classifications
- Developed and managed implementation of board letter planning and tracking system
- Participated as a member of the Top Staff management team
- Sponsor of Adopt-A-School Program with Thomas Jefferson High School
- Revised, improved, and expedited the development of the General Manager's monthly report
- Member of Metropolitan's Emergency Preparedness Management Committee, 1990-1992.
- Managed the negotiation of agreements with three bargaining units for a 3.57% cost of living increase during difficult economic conditions.
- Managed the development of staff input to setting of Metropolitan Goals and Objectives by the Board of Directors.
- Chair of Strategic Planning Task Force which began the process of developing Metropolitan's Strategic Plan.
- Chair of Contract Review Committee which developed a policy and a program with targets for achieving participation by minority and women business enterprises in District contracts.
- Champion of Metropolitan's Total Quality Management efforts, including promotion of personal effectiveness program entitled Seven Habits for Highly Effective People.
- Chair of Capital Improvement Program Task Force which established a comprehensive \$6 billion capital program.
- Managed the development of two annual budgets for presentation to the Board of Directors--\$780.5 million (91-92); \$822.5 million (92-93).
- Supervised the management of a \$550 million revenue bond sale, August 1992.
- Closely managed the development of an Accounts Payable Quality Circle and Process Change Team which resulted in the improvement of the average days to pay bills from 48 days to 25 days.

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EMPLOYMENT HIGHLIGHTS (Cont.)

- Managed the successful adoption of a \$47 per acre-foot (23%) rate increase, fiscal year 1992-93.
- Managed the implementation of a \$5 per acre parcel charge, fiscal year 1992-93.
- Managed the development of testimony to the Federal Communications Commission to protect the District's use of the 2GHz microwave frequency.

As Director of Water Quality, I was responsible for the administration and supervision of the Water Quality Division which consisted of 82 technical, professional, and administrative personnel.

- Control of water quality at five water treatment plants with a design capacity of 1700 mgd and for a distribution system serving up to 16 million people in Southern California.
- Management of strategic planning for the Water Quality Division in the areas of personnel growth, space allocation, and computer resources.
- Negotiated agreement with California Department of Health Services for implementation of the California Filtration Rule, 1988-90.
- Management of the development of Metropolitan positions on proposed federal and state water quality legislation and regulation, 1986-90.
- Management of water quality input to State Water Contractor's testimony at the Bay/Delta hearings, 1988-1990.
- Member of Computer Resources Steering Committee which reviewed plans for computer applications at Metropolitan and recommended action, 1987-1990.
- Managed project partially funded by the AWWA Research Foundation "Optimization of the PEROXONE Process for Disinfection By-Product Formation, Taste and Odor Control, and Disinfection," 1988-90.
- Negotiated agreement with Task Force investigating the impacts of Lake Mead Fertilization, 1988-89.
- Project Manager for USEPA and California Department of Health Services funded project, "Disinfection By- Products in United States Drinking Waters, 1987-89.

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EMPLOYMENT HIGHLIGHTS (Cont.)

- o Managed study partially funded by the AWWA Research Foundation to determine the efficacy of granular activated carbon for trihalomethane control, 1986-89.
- o Managed AWWA Research Foundation survey of trihalomethanes in United States water utilities, 1986-87.

As Water Quality Manager, I was responsible for the supervision of the Water Quality Branch in the Operations Division.

- o Participation as a member of the Interagency Delta Health Aspects Monitoring Program Advisory Group which gave direction to the California Department of Water Resources on a water quality survey of the Sacramento-San Joaquin Delta.
- o Management of the installation of an aqua ammonia feed system at five treatment plants (1700 mgd design capacity) and two finished water reservoirs.
- o Management of and implementation of project to explain to the public Metropolitan's change from chlorine to chloramines.
- o Management of a program to develop standards for the California Department of Health Services for the removal of chloramines from water used in hemodialysis.

As Water Quality Engineer, I directed a variety of physical- chemical treatment and environmental chemistry projects, including:

- o Conceptual design of an organics control and particulate removal pilot plant constructed of stainless steel, glass, and Teflon; hydraulic capacity of 6 gpm; conventional and advanced water treatment unit processes.
- o Formulation and implementation of organics analysis and treatment strategy for Metropolitan.
- o Participation as a member of the Technical Advisory Committee for the Orange and Los Angeles County Reuse Study.
- o Design and management of a project to assess the degree of contamination of State project water by asbestos fibers. Design of a full-scale (1700 mgd) treatment optimization study for asbestos fiber removal.

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EMPLOYMENT HIGHLIGHTS (Cont.)

- o Design of a comprehensive research program to determine the cause of earthy-musty odor problems in six Southern California reservoirs.
- o Management of design of an innovative analytical methodology to analyze for earthy-musty odorants at part-per-trillion levels.
- o Management of a treatment research program for the control of trihalomethanes at Metropolitan.
- o Management of staff input for the conceptual, preliminary, and final design of a 27,500-square-foot water quality laboratory.
- o Management of an in-house investigation designed to study the impact of replacing free chlorine with chloramines.

1977 to 1979—Brown and Caldwell Consulting Engineers, Pasadena, California

I directed or participated in the following projects:

- o Provision of consulting services to the Metropolitan Water District of Southern California to assist them in estimating the cost of granular activated carbon treatment.
- o Consultant to Public Technology, Inc., for nationwide EPA-sponsored seminar series: Control of Organic Chemical Contaminants in Drinking Water.
- o Management of the NAS/PMTC Point Mugu Industrial Waste Study, which surveyed the existing industrial waste generation on a Navy facility and evaluated treatment alternatives.
- o Management of a physical-chemical treatment system optimization project for a major industry, which included removal of dissolved metals, particulates, and excess sulfite ions; bench- and pilot-scale testing of unit processes; and design of oxidation and sedimentation unit processes.

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EMPLOYMENT HIGHLIGHTS (Cont.)

1973 to 1977—Drexel University, Philadelphia, Pennsylvania

Employed as a teaching assistant until 1975 and subsequently as a research associate to conduct a project supported by a cooperative agreement between the Philadelphia Water Department and the university. The research project evaluated various physical-chemical treatment technologies for the removal of trace organic compounds from drinking water using bench- and pilot-scale testing.

1969 to 1973—Philadelphia Water Department, Philadelphia, Pennsylvania

A major duty during the last two years of employment required the complete supervision of a research program that involved the surveillance of the water quality of the Delaware River Estuary. The program required operational supervision of a boat pilot, chemists, engineers, and technicians and the formulation of a data analysis program. Designed an unusual application of automated water-quality analytical equipment aboard a research vessel. Other duties included investigation of the availability of future water resources, preparation of testimony given before governmental bodies, and investigation of the effects of urbanization on water quality and quantity.

HONORS AND AWARDS

1978 Academic Achievement Award, American Water Works Association

1994 George Warren Fuller Award, American Water Works Association

Who's Who in the West, 1980-08; Who's Who in Engineering, 1982-98;
Who's Who in California, 1982-98; Who's Who in the World, 1995-08.

Who's Who in Science & Engineering, 2001-08

Who's Who in America, 1997-08

California-Nevada Section, American Water Works Association, Chair's Award, 1987, 1988 and 1995

2000 American Academy of Environmental Engineers, Excellence in Environmental Engineering, Grand Prize for Planning, with Tucson Water and Malcolm Pirnie, Inc.

2001 Publication Award, American Water Works Association

2001 Water Quality & Technology Division Best Paper Award, American Water Works Association

2005 George A. Elliot Award, California-Nevada Section, American Water Works Association

2006 Honorary Membership Award, American Water Works Association

2007 Water Quality & Technology Division Best Paper Award, American Water Works Association

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HONORS AND AWARDS (cont.)

2008 Consulting Engineers and Land Surveyors of California, Engineering Excellence, Honor Award, with Glendale Water and Power

2008 American Academy of Environmental Engineers, Excellence in Environmental Engineering, Grand Prize for Research, with Glendale Water and Power

2008 Avid Advocate Award, Malcolm Pirnie, Inc., Award recognizes supervisors and managers who provide staff with learning opportunities and guidance through coaching, mentoring and professional development.

PROFESSIONAL TRAINING

Environmental Regulation Course, Executive Enterprises, June 3-5, 1991.

Hazardous Waste Operations and Emergency Response, Intern'l Tech. Corp., Nov. 29, 1990

PROFESSIONAL ASSIGNMENTS

American Water Works Association--National

- Vice-President, 1994-1996
- Executive Committee, Member 1994-1996
- Board of Directors, Member 1993-1996
- Water Quality and Technology Division, Trustee 2004-present
- Taste and Odor Committee, Member 1983-85, 2000-2004; Chair 1993-1998; Liaison as Trustee of the Water Quality and Technology Division 2004-present
- Ad Hoc Committee to develop training materials for the Information Collection Rule, 1996
- Converting to Chloramines Webcast, Participant, May 2004
- Disinfectants and Disinfection By-Products Satellite Teleconference, Participant, October 15, 1993
- Technical Advisory Workgroup--Disinfection and Disinfection By-Products, Member 1987-90 & 1992-1998, Manager 1988-1990
- Education Division, Trustee 1980-84, Chair 1982-83
- Joint Training Coordinating Committee, AWWA Representative, 1980-1983, Vice-Chair 1982-83
- Standard Methods Committee, Chair of Joint Task Group on Closed-Loop Stripping Analysis for Taste and Odor Organics in Water, 16th Edition, 1980-84
- Organic Contaminants Research T&P Committee, Member 1980-1982

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PROFESSIONAL ASSIGNMENTS (Cont.)

American Water Works Association--California-Nevada Section

- National Director, 1993-1996
- Chair, 1991-1992
- Chair-Elect, 1990-91; Vice-Chair, 1989-90
- Executive Committee, 1989-1996
- Governing Board Member, 1984-1987, 1989-1996
- Ad Hoc Total Coliform Rule Committee, 1990
- Ad Hoc Surface Water Treatment Committee, 1988-90
- Safe Drinking Water Act Committee, Chair 1984-1987; Member 1984-1998
- Home Water Treatment Device Subcommittee, Chair 1986-1987
- Technical Program Committee, Chair 1990-91
- Task Committee with Department of Health Services to Develop Guidelines for Proposed Drinking Water Standards, Member 1986-88
- Water Quality and Resources Division, Trustee 1981-85, Chair 1983-1984
- Education Administrator, 1978-81
- Water Treatment, Fee Structure, Program, Desalination and Water for People Committees, Member

American Water Works Association Research Foundation

- Microbial and Disinfection By-Product Research Needs Expert Workshop, Co-Chair 1993
- Board of Trustees, Member 1983-86
- Ad Hoc Advisory Committee on AWWARF's Role in Health Effects Research, 1986
- Project Advisory Committees, Taste and Odor, Algae Control, Surrogates, and Chloroorganics Projects, 1983-86

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PROFESSIONAL ASSIGNMENTS (Cont.)

Association of Metropolitan Water Agencies

- Board of Directors, 1990-1992
- Subcommittee on Disinfection and Disinfection By-Products, Chair, 1988-1990

International Water Association (formerly International Association on Water Quality)

- Keynote Speaker, Seventh International Symposium on Off-Flavors in the Aquatic Environment, October 3-7, 2005, Cornwall, Canada
- Keynote Speaker, Fourth International Symposium on Off-Flavors in the Aquatic Environment, October 2-7, 1994, Adelaide, Australia
- Organizing Committee, Third International Symposium on Off-Flavors in the Aquatic Environment, March 3-8, 1991, Los Angeles, California, Chair 1987-1991
- Specialist Group on Tastes and Odors in Drinking Water, 1983-present

U.S. Environmental Protection Agency

- Technologies Working Group, FACA Committee, Microbial-Disinfection By-Products Rule, Washington, D.C., 1999 through 2000
- Technologies Working Group, FACA Committee, Disinfectants/Disinfection By-Products Rule, Washington, D.C., 1996 through 1997
- Technologies Working Group, Regulatory Negotiation Committee, Disinfectants/Disinfection By-Products Rule, Washington, D.C., September 1992 through October 1993
- Participant in Third U.S. EPA/AWWARF Intergovernmental Meeting with Japan, Los Angeles, California, September 1992
- Participant in Second Joint U.S. EPA/AWWARF Intergovernmental Meeting with Japan, Tokyo, Japan, July 1990
- Best Available Technology Peer Review Workgroup, 1987-1990
- U.S. EPA/AWWA Research Foundation Workshop on Volatile Organic Compounds, Reno, Nevada, June 29-30, 1982, Chair, Treatment and Costs Workgroup
- Technical Review of "Treatment Techniques for Controlling Trihalomethanes in Drinking Water," EPA-600/2-81-156, 1981
- Discussant--Protocol Development, Criteria and Standards for Potable Reuse and Feasible Alternatives, Airlic House, Warrenton, Virginia, July 29-30, 1980

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PROFESSIONAL ASSIGNMENTS (Cont.)

National Academy of Sciences--Safe Drinking Water Committee

- Consultant, Subcommittee on Adsorbents and the Water Treatment Process-Chemical and Toxicological Effects, 1980

National Research Council

- Drinking Water Contaminants Committee, 1998-99

California Department of Health Services

- Ad Hoc Committee responsible for planning compliance with and determine the impact of AB1803
- Task Force for Chloramines Removal in Kidney Dialysis Facilities, Member 1984-85

California Department of Water Resources

- Potable Reuse Committee, Member 1993-1995

Other Assignments

- International Ozone Association, International Board of Directors, Member 1992-1995
- Management Development Club of the Metropolitan Water District, President 1985
- University of California, Water Quality Task Force, 1987-88
- New York City Department of Environmental Protection, Expert Panel on the New York City Department of Environmental Protection's Distribution Coliform Monitoring Plan, March-June 1995.
- American Society of Testing and Materials, Committee-- Sensory Evaluation of Materials and Products; Subcommittee E18.0400, Fundamentals of Sensory, July 2007-present.

PUBLICATIONS AND PRESENTATIONS

McGuire, M.J., "Economic Justification for the Automation of Water Quality Analytical Techniques," Advances in Automated Analyses, vol. 4, p. 51, 1972.

Suffet, I.H., Friant, S., Marcinkiewicz, C., McGuire, M.J., and Wong, D.T.-L., "Annual Literature Review--Organics," Journal Water Pollution Control Federation, vol. 47, p. 1169, June 1975.

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PUBLICATIONS AND PRESENTATIONS (Cont.)

McGuire, M.J., Suffet, I.H., and Radziul, J.V., "The Development of Optimum Unit Processes for the Removal of Trace Organic Compounds from Drinking Water," Proceedings Annual Conference American Water Works Association, Anaheim, California, May 11, 1977.

McGuire, M.J., Suffet, I.H., and Radziul, J.V., "The Concept of Polarity and Its Relationship to the Adsorption of Organic Compounds from Aqueous Solution," presented at the Second Joint CIC/ACS Conference, Montreal, Canada, May 30, 1977.

McGuire, M.J., The Optimization of Water Treatment Unit Processes for the Removal of Trace Organic Compounds with an Emphasis on the Adsorption Mechanism, Ph.D Dissertation, Drexel University, Philadelphia, Pennsylvania, 1977.

McGuire, M.J., and Suffet, I.H., "The Interaction Between Aqueous Chlorine and the Activated Carbon Surface," presented at the 175th ACS National Meeting, Anaheim, California, March 1978.

McGuire, M.J., Suffet, I.H., Cairo, P.R., Schultz, B., Gittelman, T., and Shanahan, M., "The Effect of Oxidizing Agents on the Removal of Trace Organics from Drinking Water," presented at the International Ozone Institute, Ozone Technology Symposium, Los Angeles, California, May 23, 1978.

McGuire, M.J., Suffet, I.H., and Radziul, J.V., "Assessment of Unit Processes for the Removal of Trace Organic Compounds from Drinking Water," *Jour. AWWA*, vol. 70, pp. 565- 572, October 1978.

Suffet, I.H., McGuire, M.J., Josephson, J., and Ember, L.R., "Cleanup: That Old Black Magic Works Again," Environmental Science & Technology, vol. 12, pp. 1138-1149, October 1978.

McGuire, M.J., and Ongerth, J., "Synthetic Organics--Existence and Origins in California Waters," presented at the California-Nevada Section Conference, American Water Works Association, Los Angeles, California, October 27, 1978.

McGuire, M.J., and Suffet, I.H., "Adsorption of Organics from Domestic Water Supplies," *Jour. AWWA*, vol. 70, pp. 621-636, November 1978.

McGuire, M.J., "Feasibility Analysis and Implementation of Synthetic Organic Chemical Control Strategies," presented at Seminars on Control of Organic Contamination in Drinking Water, Public Technology, Inc./U.S. EPA, Los Angeles, California, November 15, 1978; Atlanta, Georgia, February 14, 1979.

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PUBLICATIONS AND PRESENTATIONS (Cont.)

McGuire, M.J., Fraser, G.T., and Schmokel, N., "Pollution Abatement of a Complex Mixture of Photographic, Plating and Oil Wastes," Proceedings 33rd Annual Purdue Industrial Waste Conference, Ann Arbor Science Publishers, Inc., Michigan, 1979.

McGuire, M.J., and Suffet, I.H., "Impact of Surface Functional Groups on Competitive Adsorption of Relatively Polar Organic Compounds," presented at the 178th National Meeting of the American Chemical Society, Washington D.C., September 11, 1979.

McGuire, M.J., and Suffet, I.H., "The Net Adsorption Energy Concept as an Estimate of Equilibrium Capacity in Competitive Adsorption Systems," presented at the 179th National Meeting of the American Chemical Society, Houston, Texas, March 26, 1980.

McGuire, M.J., Bowers, A.E., and Tate, C.H., "Copper Corrosion Potential of Galvanized Steel Pipe," presented at the U.S. EPA Seminar--Corrosion Control in Water Distribution Systems, Cincinnati, Ohio, May 20, 1980.

McGuire, M.J., "Feasibility Analysis and Implementation Strategies at The Metropolitan Water District of Southern California to Solve the Trace Organics Problem," presented at the 8th Annual Conference of the Water and Wastewater Equipment Manufacturers Association, Houston, Texas, June 6, 1980.

McGuire, M.J., and Suffet, I.H., "The Calculated Net Adsorption Energy Concept," in Activated Carbon Adsorption of Organics from the Aqueous Phase, vol. 1, I.H. Suffet and M.J. McGuire (Eds.), Ann Arbor Science Publishers, Inc., Michigan, 1980.

McGuire, M.J., "Feasibility Analysis and Implementation of Synthetic Organic Chemical Control Strategies," in Activated Carbon Adsorption of Organics from the Aqueous Phase, vol. 2, M.J. McGuire and I.H. Suffet, (Eds.), Ann Arbor Science Publishers, Inc., Michigan, 1980.

Cairo, P.R., Radziul, J.V., Suffet, I.H., and McGuire, M.J., "The Application of Bench-Scale and Pilot-Scale Studies for Control of Organic Chemical Contaminants," Activated Carbon Adsorption of Organics from the Aqueous Phase, vol. 2, M.J. McGuire and I.H. Suffet, (Eds.), Ann Arbor Science Publishers, Inc., Michigan, 1980.

Suffet, I.H., Cairo, P.R., and McGuire, M.J., "Combination of Unit Processes for Removal of Trace Organics from Drinking Water: Two Case Studies," Proceedings International Water Supply Association Conference, Paris, France, September 1-4, 1980.

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PUBLICATIONS AND PRESENTATIONS (Cont.)

McGuire, M.J., Krasner, S.W., Hwang, C.J., and Izaguirre, G., "Closed-Loop Stripping Analysis at the Parts-Per-Trillion Level as a Tool for Solving Taste and Odor Problems," Proceedings Eighth Annual Water Quality Technology Conference, American Water Works Association, Miami Beach, Florida, December 9, 1980.

McGuire, M.J., "The Age of Trace Contaminants," WATER Engineering & Management, vol. 128, p. 12, February 1981.

McGuire, M.J., "Strategies at The Metropolitan Water District of Southern California to Control Trihalomethanes," presented at the California-Nevada Section Conference, American Water Works Association, Santa Rosa, California, April 10, 1981.

McGuire, M.J., and Nichols, I.E., "Training Activities in the California-Nevada Section," presented at the Annual Conference of the American Water Works Association, St. Louis, Missouri, June 10, 1981.

McGuire, M.J., and other members of the Organic Contaminants Research T&P Committee, "An Assessment of Microbial Activity on GAC," *Jour. AWWA*, vol. 73, pp. 447-454, August 1981.

Rauscher, D.C., Beard, J.D., III, and McGuire, M.J., "Efficient Removal of Solids from Dual-Media Filters," Proceedings of the Specialty Conference, Water Forum '81, American Society of Civil Engineers, San Francisco, California, pp. 427-434, August 10, 1981.

McGuire, M.J., Krasner, S.W., Hwang, C.J., and Izaguirre, G., "Closed-Loop Stripping Analysis as a Tool for Solving Taste and Odor Problems," *Jour. AWWA*, vol. 73, pp. 530-537, October 1981.

Krasner, S.W., Hwang, C.J., and McGuire, M.J., "Development of a Volatile Organic Analysis Technique for the Orange-Los Angeles County Reuse Study," in Chemistry in Water Reuse, W.J. Cooper (Ed.), Ann Arbor Science Publishers, Inc., Michigan, 1981.

Krasner, S.W., Hwang, C.J., and McGuire, M.J., "Development of a Closed-Loop Stripping Technique for the Analysis of Taste- and Odor-Causing Substances in Drinking Water," in Advances in the Identification and Analysis of Organic Pollutants in Water, vol. 2, L.H. Keith (Ed.), Ann Arbor Science Publishers, Inc., Michigan, 1981.

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PUBLICATIONS AND PRESENTATIONS (Cont.)

Bowers, A.E., McGuire, M.J., Bowers, D.A., "Asbestos Analysis Case History: Surface Water Supplies in Southern California," Proceedings Ninth Annual Water Quality Technology Conference, American Water Works Association, Seattle, Washington, December 8, 1981.

Izaguirre, G., Hwang, C.J., Krasner, S.W., and McGuire, M.J., "Geosmin and 2-Methylisoborneol from Cyanobacteria in Three Water Supply Systems," Applied and Environmental Microbiology, vol. 43, n. 3, pp. 708-714, March 1982.

McGuire, M.J., "Theoretical Introduction to Taste and Odor in Drinking Water," presented at the California-Nevada Section Conference, American Water Works Association, Long Beach, California, April 15, 1982.

McGuire, M.J., "Pilot Studies for the Removal of Organics," presented at the Annual Conference of the American Water Works Association, Miami Beach, Florida, May 16, 1982.

McGuire, M.J., Bowers, A.E., and Bowers, D.A., "Optimization of Large-Scale Water Treatment Plants for Asbestos Fiber Removals," Proceedings, 1982 Annual Conference, American Water Works Association, Miami Beach, Florida, May 20, 1982.

McGuire, M.J., "Theory of Taste and Odor Control," Water Treatment Forum XIV, California-Nevada Section, American Water Works Association, Riverside, California, July 15, 1982.

McGuire, M.J., Bowers, A.E., and Bowers, D.A., "Asbestos Analysis Case History: Surface Water Supplies in Southern California," *Jour. AWWA*, vol. 74, pp. 471-478, September 1982.

McGuire, M.J., "The Impact of Fundamental Research as Viewed by a Regional Water Utility Engineer," Proceedings Conference on Fundamental Research Needs for Water and Wastewater Systems, Association of Environmental Engineering Professors/National Science Foundation, Arlington, Virginia, December 2, 1982.

McGuire, M.J., Tanaka, T.S., and Davis, M.K., "Experimental Error Estimates Associated with Pilot-Scale Investigations of Trace Organic Removals," in Treatment of Water by Granular Activated Carbon, M.J. McGuire and I.H. Suffet (Eds.), Advances in Chemistry Series Number 202, American Chemical Society, Washington, D.C., 1983.

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PUBLICATIONS AND PRESENTATIONS (Cont.)

Means, E.G., Izaguirre, G., Hwang, C.J., Krasner, S.W., and McGuire, M.J., "Biodegradation of the Taste and Odor Compound 2-Methylisoborneol in a Potable Water Supply," presented at the Annual Conference of the American Society for Microbiology, New Orleans, Louisiana, March 7, 1983.

McGuire, M.J., "Taste and Odor Control," Water Treatment Forum XV, California-Nevada Section, American Water Works Association, San Diego, California, April 12, 1983.

McGuire, M.J., Jones, R.M., Means, E.G., Izaguirre, G., and Preston, A.E., "Control of Attached Blue-Green Algae in a Source Water Reservoir," Proceedings, 1983 Annual Conference, American Water Works Association, Las Vegas, Nevada, June 8, 1983.

Lalezary, S., Pirbazari, M., and McGuire, M.J., "Air Stripping of Trace Taste and Odor Compounds from Water," Proceedings, 1983 Annual Conference, American Water Works Association, Las Vegas, Nevada, June 8, 1983.

Means, E.G., Tanaka, T.S., Otsuka, D.J., and McGuire, M.J., "Impact of Chlorine and Ammonia Application Points on the Bactericidal Efficiency of Free Chlorine and Chloramines in Pilot Plant Studies," Proceedings, 1983 Annual Conference, American Water Works Association, Las Vegas, Nevada, June 8, 1983.

Krasner, S.W., Hwang, C.J., and McGuire, M.J., "A Standard Method for Quantification of Earthy-Musty Odorants in Water, Sediments and Algal Cultures," Water Science and Technology, vol. 15, No. 6/7, pp. 127-138, 1983.

Izaguirre, G., Hwang, C.J., Krasner, S.W., and McGuire, M.J., "Production of 2-Methylisoborneol by Two Benthic Cyanophyta," Water Science and Technology, vol. 15, No. 6/7, pp. 211-220, 1983.

McGuire, M.J., Krasner, S.W., Hwang, C.J., and Izaguirre, G., "An Early Warning System for Detecting Earthy-Musty Odors in Reservoirs," Water Science and Technology, vol. 15, No. 6/7, pp. 267-277, 1983.

McGuire, M.J., Bowers, A.E., and Bowers, D.A., "Optimizing Large-Scale Water Treatment Plants for Asbestos Fiber Removal," *Jour. AWWA*, vol. 75, pp. 364-370, July 1983.

McGuire, M.J., Viewpoint/Counterpoint -- "A Water Utility Engineer Assesses Fundamental Research," *Jour. AWWA*, vol. 75, pp. 20, 22, and 36 (NEWS), August 1983.

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PUBLICATIONS AND PRESENTATIONS (Cont.)

Krasner, S.W., McGuire, M.J., and Ferguson, V.B., "Application of the Flavor Profile Method for Taste and Odor Problems," Proceedings Eleventh Annual Water Quality Technology Conference, American Water Works Association, Norfolk, Virginia, December 4-7, 1983.

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SEMINARS

Presented a series of seminars at major research centers and before professional groups in the United States and Europe on the use of physical-chemical and biological treatment techniques to remove organic compounds and to control contaminants in drinking water:

Societe Lyonnaise des Eaux, Paris, France, November 28, 1976.

Swiss Federal Institute, EAWAG, Duebendorf, Switzerland, January 5, 1977.

Water Research Centre, Medmenham, England, March 3, 1977.

Engler Bunte Institute, Karlsruhe, West Germany, August 1977.

University of North Carolina, Chapel Hill, February 12, 1979.

Georgia Institute of Technology, Atlanta, Georgia, February 16, 1979.

California Institute of Technology, Pasadena, California, March 7, 1979.

Southern California Water Conference, Los Angeles, California, February 25, 1980.

University of La Verne, La Verne, California, March 6, 1980.

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California Department of Health Services, Sanitary Engineering Branch, Santa Barbara, California, October 9, 1980.

University of California, Berkeley, November 5, 1980.

American Society of Civil Engineers, Los Angeles Section Environmental Group, Los Angeles, California, November 14, 1980.

American Chemical Society of Civil Engineers, Los Angeles Section, October 14, 1981.

West Basin Water Association, Torrance, California, November 19, 1981.

Orange County Water Association, Santa Ana, California, January 20, 1982.

Environmental Health Directors of Southern California, Los Angeles, California, March 11, 1982

University of Florence, Florence, Italy, September 14, 1983.

University of California, Berkeley, November 9, 1984.

University of Southern California, Los Angeles, California, October 11, 1985.

Osaka Waterworks, Osaka, Japan, October 9, 1987.

University of California, Los Angeles, California, October 15, 1992.

Lyonnaise des Eaux-Dumez, Paris, France, July 22, 1994.

University of Arizona, Tucson, Arizona, January 26, 1995.

Seattle Water Department, Seattle, Washington, February 1, 1995.

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State of California, Senate Committee on Agriculture and Water Resources, S.B.2070 and Rate Increases by Metropolitan, Sacramento, California, June 2, 1992.

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EXPERT TESTIMONY AND DEPOSITIONS

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